

* NOTICES *

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CLAIMS

[Claim(s)]

[Claim 1] The inhalation-of-air flow rate control unit for diesel power plants characterized by to be set up so that it is attached in the valve stem prepared in the inhalation-of-air path free [rotation], and this valve stem, it is combined with the throttle valve and the valve stem which controls the circulation air content of an inhalation-of-air path, it has the stepper motor which drives the above-mentioned throttle valve from an open position to a closed position, and the spring which energizes the above-mentioned throttle valve in the full-open direction and the leakage flow rate of the inhalation of air in the closed position of the above-mentioned throttle valve may become large than inspired air volume required at the time of idling operation of an engine.

[Claim 2] The inhalation-of-air flow rate control unit for diesel power plants according to claim 1 characterized by setting up the leakage flow rate of inhalation of air by the variation of tolerance of the inside diameter of an inhalation-of-air path, and the outer-diameter dimension of a throttle valve.

[Claim 3] The inhalation-of-air flow rate control unit for diesel power plants according to claim 1 characterized by setting up the leakage flow rate of inhalation of air by notching prepared in the throttle valve, or the through tube.

[Claim 4] The inhalation-of-air flow rate control unit for diesel power plants according to claim 1 characterized by setting up the leakage flow rate of inhalation of air by regulating the throttle valve position in a close-by-pass-bulb-completely condition.

[Claim 5] the time of setting to Fmax maximum of the torque according the maximum of Smin and the detent torque at the time of no motor energizing to friction of MDmax and a valve stem in the minimum value of the valve-opening torque of the spring which energizes a throttle valve in the full open direction -- formula $S_{min} < \text{Inhalation-of-air flow rate control unit for diesel power plants given in any 1 term of claim 1 characterized by setting up the ability of a spring so that } MD_{max} + F_{max} \text{ may be satisfied}$ - claim 4.

[Translation done.]